# Year 1 Annual Report Massachusetts Small MS4 General Permit

### Massachusetts Sman MS4 General I et mit

Reporting Period: May 1, 2018-June 30, 2019

\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\*

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed.

### **Part I: Contact Information**

Name of Municipality or Organization:	Town of Carver	r				
EPA NPDES Permit Number:	1AR041099					
Primary MS4 Program Mana	ger Contact Informati	ion				
Name: John Woods		Title:	Title: Director of Operations & Maintenance			
Street Address Line 1: 108 Mai	n Street					
Street Address Line 2:						
City: Carver	State: MA	Zip Co	de: 023.	30		
Email: John. Woods@carverma	.gov	Phon	e Numb	er: (508) 8	366-3425	
Fax Number: (508) 866-2393						
Stormwater Management Pro	gram (SWMP) Inforn	nation				
SWMP Location (web address)	: https://www.carvermoormwater-managemen			-and-main	tenance-de	epartment/pages/st
Date SWMP was Last Updated	June 2019					
If the SWMP is not available or not posted on the web:	the web please provid	e the phy	sical ad	dress and	an explana	tion of why it is

# Part II: Self Assessment

*First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.* 

Impairment(	(s)			
	☐ Bacteria/Pathogens	☐ Chloride	✓ Nitrogen	Phosphorus
	☐ Solids/ Oil/ Grease (H	ydrocarbons)/ Metal	s	•
TMDL(s)				
In State:	☐ Assabet River Phospho☐ Charles River Watersh		eria and Pathogen  Lake and Pond	☐ Cape Cod Nitrogen  I Phosphorus
Out of State:	☐ Bacteria/Pathogens	$\square$ Metals	☐ Nitrogen	☐ Phosphorus
			CI	ear Impairments and TMDLs
	<b>upleted that permit require</b> dditional information will b rements			equirement teuve the box
	op and begin public educati	on and outreach pro-	oram	
	fy and develop inventory of	•		scharged to the MS4 in the
1450 5	O The SSO inventory is	attached to the emai	l submission	
	O The SSO inventory ca			
	The Town of Carver d applicable.	oes not have a sewe	r system, therefore, ti	his requirement is not
<b>✓</b> Develo	op written IDDE plan inclu	ding a procedure for	screening and sampl	ing outfalls
<b>✓</b> IDDE	ordinance complete			
	fy each outfall and intercong y rank each catchment for in		from MS4, classify in	nto the relevant category, and
	O The priority ranking o	f outfalls/interconne	ections is attached to	the email submission
	• The priority ranking o	f outfalls/interconne	ctions can be found a	at the following website:
	https://www.carverma agement-program	.gov/operations-ana	l-maintenance-depar	tment/pages/stormwater-man
<b>✓</b> Constr	ruction/ Erosion and Sedime	ent Control (ESC) or	dinance complete	
Develomeasu	op written procedures for si res	te inspections and er	nforcement of sedime	ent and erosion control
<b>✓</b> Develo	op written procedures for si	te plan review		
☐ Keep a	a log of catch basins cleaned	d or inspected		
	lete inspection of all stormy	vater treatment struc	tures	

Annual Requirements	
Annual opportunity for public participation in review and implementation of SWMP	
✓ Comply with State Public Notice requirements	
✓ Keep records relating to the permit available for 5 years and make available to the public	
Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters	
Annual training to employees involved in IDDE program	
☐ All curbed roadways have been swept a minimum of one time per year	
Nitrogen (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)	
Annual Requirements	
Public Education and Outreach*	
Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers	
Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate	
Distribute an annual message in the fall (August/September/October) encouraging the proper disposal leaf litter	O
* Public education messages can be combined with other public education requirements as applicable (see Appendix $H$ and $F$ for more information)	
Good Housekeeping and Pollution Prevention for Permittee Owned Operations  Increase street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)	
Potential structural BMPs	
Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the introgen removal by the BMP consistent with Attachment 1 to Appendix H. Document the BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP in each each annual report	
Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)	
Annual Requirements	
Public Education and Outreach*  Distribute an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers	
Distribute an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate	
Distribute an annual message in the fall (August/September/October) encouraging the proper disposal leaf litter	of
* Public education messages can be combined with other public education requirements as applicable (so Appendix $H$ and $F$ for more information)	?e

Page

Town of Carver

# Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?	
Yes 🗹 No 🗆	
If yes, describe below, including any relevant impairments or TMDLs:	
During Permit Year 1, the Town updated the outfall mapping for accuracy based on outfall investigation field work. The new number of outfalls is 207. The outfall inventory has been updated on the Town Web site at https://www.carverma.gov/operations-and-maintenance-department/pages/stormwater-management-progra	
The list of Receiving Waterbodies and relevant impairments and TMDLs have not changed from the NOI.	

# **Part IV: Minimum Control Measures**

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education
Number of educational messages completed during the reporting period: 4
Below, report on the educational messages completed during the first year. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.
BMP: Multi-media Methods for Residents  Message Description and Distribution Method:
The Town of Carver maintains a stormwater webpage with educational information for residents. Educational topics include the proper use of slow-release fertilizers, leaf litter disposal, pet waste management, and automotive information for car washes and disposing of liquids. These materials were used to meet the requirements per Appendix H for discharges to waters impaired for Phosphorus and Nitrogen.
Targeted Audience: Residents
Responsible Department/Parties: Conservation Commission/Board of Health
Measurable Goal(s):
The Town posted an electronic survey online to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior.
Message Date(s): Survey available on Town website through the end of Permit Year 1
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☑ Was this message different than what was proposed in your NOI? Yes ☐ No ☑ If yes, describe why the change was made:
BMP: Multi-media methods for Businesses  Message Description and Distribution Method:  The Town of Carver maintains a stormwater webpage with educational information for businesses including managing grease waste, cleaning up spills, preventing pollution, and winter de-icing, proper use of slow-release fertilizers, leaf litter disposal, pet waste management, and automotive information for car washe.
and disposing of liquids.
Targeted Audience: Businesses, institutions and commercial facilities
Responsible Department/Parties: Conservation Commission/Board of Health
Measurable Goal(s):

Town of Carver Page The Town distributed an electronic survey to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if Message Date(s): *Ongoing* Appendix F Requirements Appendix H Requirements Message Completed for: Yes □ No **☑** Was this message different than what was proposed in your NOI? If yes, describe why the change was made: BMP: Multi-media Methods for Construction Developers Message Description and Distribution Method: The Town of Carver maintains a stormwater webpage with educational information for construction developers including, erosion and sediment control and BMP maintenance, proper use of slow-release fertilizers, leaf litter disposal, pet waste management, and automotive information for car washes and disposing of liquids. Targeted Audience: Developers (construction) Responsible Department/Parties: Conservation Commission, Operation and Maintenance, Planning Board, Bo Measurable Goal(s): The Town distributed an electronic survey to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. Message Date(s): Ongoing Appendix F Requirements Appendix H Requirements Message Completed for: Yes□ No 🗸 Was this message different than what was proposed in your NOI? If yes, describe why the change was made: BMP:Multi-media methods for Industrial Facilities Message Description and Distribution Method: The Town of Carver has very few industrial facilities. However, the Town maintains a stormwater webpage with educational information for automotive facilities on practicing good housekeeping and pollution

prevention, proper use of slow-release fertilizers, leaf litter disposal, pet waste management, and automotive information for car washes and disposing of liquids.

Targeted Audience: Industrial F	acilities
Responsible Department/Parties:	Conservation Commission, Board of Health
Measurable Goal(s):	

Town of Carver Page The Town distributed an electronic survey to determine a baseline for measuring the effectiveness of public education and outreach efforts. The survey will be distributed again during the permit term to determine if public education and outreach efforts have made an impact on behavior. Message Date(s): *Ongoing* Appendix H Requirements Message Completed for: Appendix F Requirements Yes □ No **✓** Was this message different than what was proposed in your NOI? If yes, describe why the change was made: Add an Educational Message **MCM2: Public Participation** Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during the reporting period: The Stormwater Management Plan (SWMP) was posted for public review and made publicly available on the Town's website. The SWMP was also presented to the Board of Selectmen at a public meeting held on June 11, 2019 where public comments and feedback were solicited. No 🗸 Was this opportunity different than what was proposed in your NOI? Yes  $\square$ Describe any other public involvement or participation opportunities conducted during the reporting period: • The Town of Carver sponsored a Hazardous Waste Day on Saturday, June 1, 2019 from 9am-1pm. An additional Hazardous Waste Day is planned on November 16, 2019. • After a severe storm in March 2019, the Carver DPW allowed residents to drop off broken branches and other debris at their salt shed for proper disposal. They did this two consecutive weekends. •The DPW sponsored several private cleanups including a neighborhood cleanup on Pond Street and Boy Scout Beach Cleanup. The DWP provided trash bags and picked up all trash from the volunteers.

### MCM3: Illicit Discharge Detection and Elimination (IDDE)

### **Sanitary Sewer Overflows (SSOs)**

Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.

Number of SSOs identified: *N/A*Number of SSOs removed:

Below, report on the percent of catchments investigated to date.

Percent of total catchments investigated:

Optional: Provide any additional information for clarit	y rega	ording th	e catchment investigations below:
No catchment investigations were completed in Permit required to begin until Permit Year 2. Additionally, the			- v -
IDDE Duoguaga			
IDDE Progress  If illicit discharges were found, please submit a docume period, and cumulative to date, including location sour date of discovery; and date of elimination, mitigation, a schedule of removal.	rce; de	escriptio	n of the discharge; method of discovery;
<ul><li>The illicit discharge removal report i</li><li>The illicit discharge removal report of</li></ul>			
Not applicable.			-
Below, report on the number of illicit discharges identife removed during this reporting period.		nd remo	ved, along with the volume of sewage
Number of illicit discharges identified:	0		
Number of illicit discharges removed:	0		
Estimated volume of sewage removed:	0		[UNITS]
Below, report on the total number of illicit discharges i the number of illicit discharges identified and removed	since	the effec	
Total number of illicit discharges identi	ified:	0	
Total number of illicit discharges remove	ved:	0	
Optional: Provide any additional information for clarit planned to be removed below:  No illicit discharges have been identified in the Town of			icit discharges identified, removed, or
Employee Training			
Describe the frequency and type of employee training of	condu	cted dur	ing the reporting period:
An inter-departmental meeting was held on June 6, 20 IDDE program and IDDE program responsibilities. To 2017 on how to recognize an illicit discharge, and hav illicit discharges, stormwater outfall investigations, and	'own S ve beer	taff were n provide	e trained comprehensively in February ed with regular training opportunities on

0

Page

Town of Carver

presence of illicit discharges during regular Department operations activities.

Town of Carver Page Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period. Number of site plan reviews completed: 11 Number of inspections completed:  $\theta$ Number of enforcement actions taken:  $\theta$ MCM5: Post-Construction Stormwater Management in New Development and Redevelopment **Ordinance Development** Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term: Complete. During Permit Year 2, the Town plans to review existing regulations and determine whether updates or additions are needed to meet the requirements of the General Permit. **As-built Drawings** Describe the status of the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites required to be complete in year 2 of the permit term: The required submission of as-built drawings to ensure long term operation and maintenance of completed construction sites is not required to be completed until the end of Permit Year 2. The Town will review existing bylaws and regulations and determine where updates or additions are needed to meet the requirements of the General Permit. This will be completed during Permit Year 2. Street Design and Parking Lots Report Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including

any planned or completed changes to local regulations and guidelines:

Preparation for the	Street Design (	and Parking	Lots Report	has not yet	begun as th	is requirement	t is due in
Permit Year 4.							

### **Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

Preparation of the Green Infrastructure Report has not yet begun as this requirement is due in Permit Year 4.

<u>Retrofit P</u>	Properties	<u>Inventory</u>

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

Preparation of the Retrofit Properties Inventory has not yet begun as this requirement is due in Permit Year 4.

### MCM6: Good Housekeeping

Describe the status of the catch basin cleaning optimization plan:				
Development of a catch basin optimization plan is in progress.				
If complete, a	attach the catch basin cleaning optimization plan or the schedule to gather information to develop tion plan:			
	O The catch basin cleaning optimization plan or schedule is attached to the email submission			
	The catch basin cleaning optimization plan or schedule can be found at the following website:			
_	Total volume or mass of material removed from all catch basins:  Unk			
removed fron	Number of catch basins cleaned: 5			
removed fron	n the catch basins during this reporting period.  Number of catch basins inspected: 0  Number of catch basins cleaned: 5  Total volume or mass of material removed from all catch basins: Unk			
removed fron	Number of catch basins inspected: 0  Number of catch basins cleaned: 5  Total volume or mass of material removed from all catch basins: Unk  It on the total number of catch basins in the MS4 system, if known.  Total number of catch basins: ~1055			

### **Street Sweeping**

Describe the status of the written procedures for sweeping streets and municipal-owned lots:

Written procedures for street sweeping are not required to be completed until the end of Permit Year 2. The Town will review existing street sweeping practices and establish written procedures as part of an overall infrastructure O&M plan.

	Number of miles cleaned: 36		
	O Volume of material removed:	[UNITS]	
	O Weight of material removed:	[UNITS]	
If applicab	ole:		
	incurbed roadways with no catch basins, descr weeping plan:	ribe the progress of the inspecti	on, documentation,

#### **Winter Road Maintenance**

Describe the status of the written procedures for winter road maintenance including the storage of salt and sand:

Written procedures for winter road maintenance are not required to be completed until the end of Permit Year 2. The Town plans to review existing winter road maintenance practices and establish written procedures as part of an overall infrastructure O&M plan.

### **Inventory of Permittee-Owned Properties**

Describe the status of the inventory, due in year 2 of the permit term, of permittee-owned properties, including parks and open spaces, buildings and facilities, and vehicles and equipment, and include any updates:

The Town has prepared an initial list of Town-owned properties to be included in the inventory. The Town plans to complete the inventory by June 30, 2020.

#### O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment

Describe the status of the operation and maintenance procedures, due in year 2 of the permit term, of permittee-owned properties (parks and open spaces, buildings and facilities, vehicles and equipment) and include maintenance activities associated with each:

As the Town prepares the Inventory of Town-Owned Properties, the Town plans to concurrently prepare O&M procedures associated with the properties included in the inventory by June 30, 2020.

Stormwater	<b>Pollution</b>	Prevention	Plan	(SWPPP)
Stulmwater	ı viiuuvii	TICACHION	1 lan	10 11111

described below:

Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-owned or operated facilities
including maintenance garages, public works yards, transfer stations, and other waste handling facilities where
pollutants are exposed to stormwater:

The Town plans to identify what properties and facilities are in need of a SWPPP and will prepare these in accordance with the General Permit by June 30, 2020.				
Below, report on the number of site inspections for facilities that require a SWPPP completed during this reporting period.				
Number of site inspections completed: $N/A$				
Describe any corrective actions taken at a facility with a SWPPP:				
Not applicable.				
O&M Procedures for Stormwater Treatment Structures				
Describe the status of the written procedure for stormwater treatment structure maintenance:				
Written procedures for operation and maintenance of stormwater treatment structures are not required to be completed until the end of Permit Year 2. The Town plans to review existing operations and maintenance procedures for stormwater treatment structures and establish written procedures as part of an overall				
infrastructure O&M plan.				
Additional Information				
Monitoring or Study Results				
Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance of permit effectiveness must be attached.				
Not applicable				
O The results from additional reports or studies are attached to the email submission				
O The results from additional reports or studies can be found at the following website(s):				
If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be				

10wh of Carver	rage

#### **Additional Information**

Town of Carner

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

MCM#4: Numbers presented reflect all projects in Town, not just projects disturbing one or more acres.

MCM#5: The catch basin cleaning optimization plan will be formalized during development of a written operation and maintenance plan in Permit Year 2. The total number of catch basins in the Urbanized Area includes private drainage. This will be addressed in mapping improvements during Permit Year 2.

### **Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 2 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree✓

## Part V: Certification of Small MS4 Annual Report 2019

#### 40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Ronald E. Clarke	Title: Town Chairman
Signature	[Signatory may be a duly authorized representative]	Date: 9-30-19